

Express Mail Label No. EL 569 074 735 US

PATENT APPLICATION
Docket No.: 14531.107.1.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of
Keren et al.
Serial No.: 09/770,769
Confirmation No.: 7768
Filed: January 25, 2001
For: REMOTE COMPUTER ACCESS

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the application, Applicants respectfully request entry of the following amendment.

IN THE CLAIMS:

Please cancel Claims 1- 40 and add new claims 41 - 71 as follows:

41. A method of remote computer access, comprising:

executing a program at a first location, to generate display commands; converting said display commands directly into a compressed video data stream; transmitting said compressed data stream to a second location, remote from said first location; decompressing said compressed data stream at the second location; and displaying the decompressed data stream as an image at the second location.

42. A method according to claim 41, wherein displaying the decompressed data comprises displaying the decompressed data on a TV set.

43. A method according to claim 41, wherein transmitting said compressed data comprises transmitting said compressed data over a television distribution network.

44. A method according to claim 43, wherein said network comprises a cable network.

45. A method according to claim 41, wherein said program comprises a word processor.

46. A method according to claim 41, wherein said program accesses data stored in association with a general purpose computer executing the program at the first location.

47. A method according to claim 46, wherein said decompressed data stream comprises audio recordings.

48. A method according to claim 47, comprising tracking access to said audio recordings for royalty payment assessment.

49. A method according to claim 41, wherein said program comprises a browser which accesses a third location, remote from said first and said second locations.

50. A method according to claim 41, comprising transmitting user inputs from said remote location to said first location, responsive to said display.

51. A method of video transmission, comprising:
executing, at a server computer, a plurality of programs, each of said programs generating a display responsive to an Internet connection; and
transmitting each of said displays to a different remote location, wherein said displays are transmitted as compressed video streams.

52. A method according to claim 51, wherein each of said programs is connected to a different Internet address.

53. A method according to claim 51, wherein each of said programs generates a set of display commands, wherein said compressed video streams are directly generated from said sets of display commands.

54. A method according to claim 53, comprising generating said compressed video streams responsive to known visual limitations at said remote locations.

55. A method according to claim 53, comprising degrading said display commands responsive to bandwidth limitations on said transmission.

56. A multi-headed display generator, comprising:

at least one CPU running at least one program, each of said programs generating at least one set of display commands, wherein said programs generate in totality at least two sets of content independent display commands; and

at least one compressor which converts said two sets of display commands into two simultaneous compressed video streams,

wherein said compression of the said sets utilizes at least one shared resource of said generator.

57. A generator according to claim 56, wherein said resource comprises CPU resources.

58. A generator according to claim 56, wherein said resource comprises memory resources.

59. A generator according to claim 56, wherein said generator trades off the compression of one set of display commands with the compression of a second set of display commands.

60. A generator according to claim 59, wherein said tradeoff comprises trading off quality between the two command sets.

61. A generator according to claim 59, wherein said tradeoff comprises trading off frame rate between the two command sets.

62. A generator according to claim 56, wherein said generator statistically multiplexes said compressed video streams onto a single transmission bandwidth.

63. A method of generating a plurality of unrelated image streams, comprising:

- defining a virtual output on a computer;
- executing a plurality of programs on said computer, each program outputting to the virtual output;
- capturing, for each program, one or more commands for said virtual output; and
- converting said one or more commands into a stream having a content unrelated to streams converted from other of said one or more commands.

64. A method as recited in claim 63, wherein said virtual output is a virtual display, each program outputting to a different section of said virtual display, and wherein said one or more commands are converted into an image stream.

65. A method according to claim 63, wherein said image streams comprise compressed image streams.

66. A method as recited in claim 63, wherein said virtual output is at least one virtual audio output, each program outputting to said at least one virtual audio output, and wherein said one or more commands are converted into an audio stream.

67. A method of producing different display representations at a plurality of remote locations, comprising:

transmitting a digitally encoded representation of a base display to a plurality of remote locations;

transmitting a plurality of representations of modifications of said base display;

receiving at a plurality of display locations said base display and at least one representation of a modification; and

reconstructing at said display locations, said display representations, from said base representation and said at least one modification representations.

68. A method according to claim 67, wherein said representations comprise HTML files.

69. A method according to claim 67, wherein said representations comprise sets of display commands.

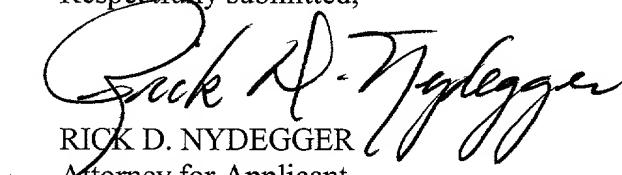
70. A method according to claim 67, wherein said representations comprise programs in a display generation language.

71. A method according to claim 70, wherein the display generation language comprises JAVA.

Consideration of the application is respectfully requested in view of the foregoing amendments. Please direct any inquiries concerning this correspondence to the undersigned.

Dated this 27th day of April, 2001.

Respectfully submitted,



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